

## ABSTRACT

A glucose sensor system comprising the steps of using as a sample discriminating parameter a ratio ( $I/\Delta I$ ) of a measured current value  $I$  to the time-differential value of the current value  $\Delta I$ , defining a discrimination function that discriminates whether a sample is blood or control fluid and uses the discriminating parameter as an independent variable, quantitating as a discriminating index a numeric value obtained by substituting a discriminating parameter value into this discrimination function, and automatically discriminating, based on this index, whether the sample is blood or a control fluid, whereby a kind of the sample can be automatically quantitated by measuring electric current when a sensor system is used for quantitating the concentration of an analysis object in the sample.